

KELCO INDUSTRIAL SERVICES

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248-421-9882

Portable Video Scope

LVS 2-6

User's Manual

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The Characteristics of this Product

The Portable Video Scope (LVS-2) can readily inspect the various places that are difficult to see. It comes with 3.5 inch display, has a built-in rechargeable lithium battery and two-way articulation to easily complete inspection tasks without other external devices.

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Contents:

1 Base:	LVS-2	1PC
	Charger	1PC
	Video Cable	1PC
	Users Manual	1PC

2 with USB case:

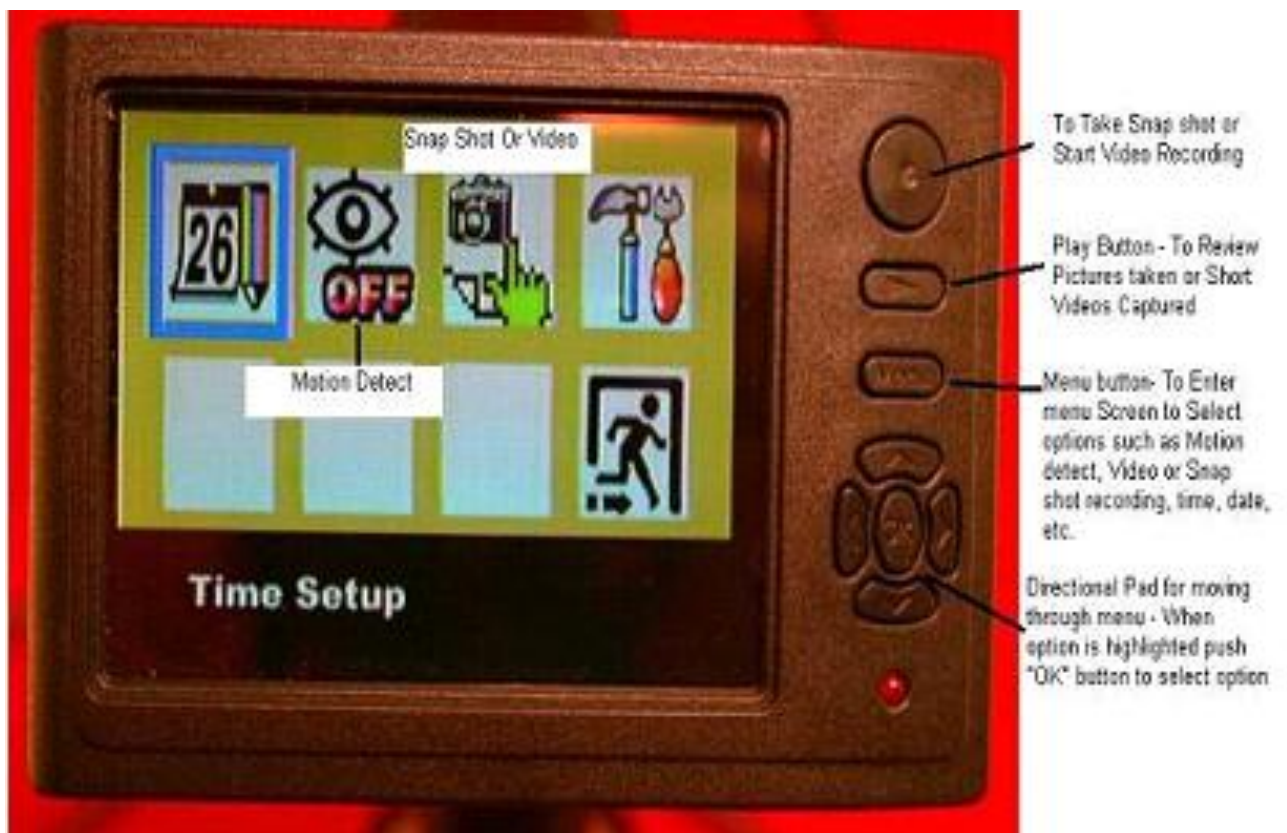
USB Capture Device	1PC
Drive CD	1PC

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Button layout for LVRS Model only



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Technical Index & Specifications:

<u>ITEM</u>	<u>TECHNICAL INDEX</u>
Model	LVS-2
Viewing Direction	Direct View
Field of View	95 degree
Depth of Observation	5~200mm
Focus	Fixed
Bending Angle	2 ways: left and right 90 ~ 120
Head Size	4, 6, 8 mm
Sort of Flexible Scope	Stainless Steel Reticulation Plastic Hoses
Working Length	Meters
Output	NTSC Video Signal
Display	3.5 TFT LCD
Display Corner	0~90 degree
White Balance	Manual
Light Source	LED
Battery	Inside rechargeable battery (2200MAH Lithium-ion, working time 8 hours)
Charger	AC IN100~240V DC OUT 12.6V-1A
Working Temperature	-20 C ~ 80 C

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Product Sketch Map:

Figure 1. Sketch map of LVS-2' parts

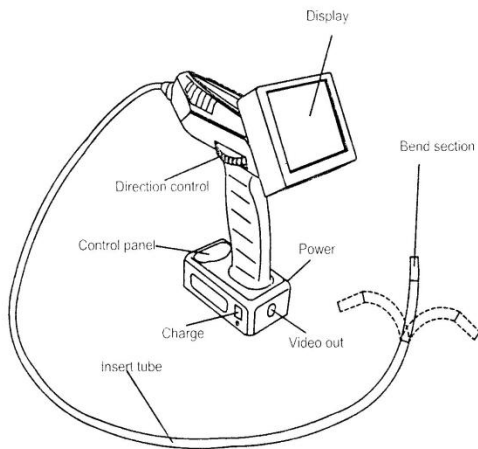
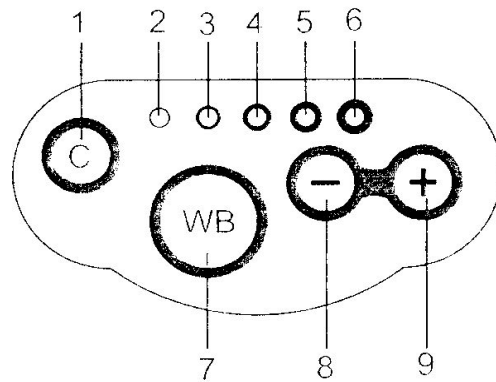


Figure 2. Sketch map of LVS-2's control panel



Button Diagram

1. C button, Check the battery's capability
2. Battery's capability low warning LED
3. 25% of battery capability LED
4. 50% of battery capability LED
5. 75% of battery capability LED
6. Battery's capability full LED
7. The White Balance Button
8. The decrease button for light output
9. The increase button for light output

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How To Operate:

1. Checks before using LVS-2

Check the insertion tube: for damage or deformity or if broken.

Check the power: turn on the power switch. Press the C button to check the battery's charge, (charge time is 3-4 hours)

Check the lens: Make sure the glass of lens is clean.

If you find any other abnormalities about the LVS-2, please contact sales@kelcoindustrial.com.

(Before insertion for best color, point video scope at white piece of paper and push the WB or White balance button)

2. Turn On the power (if you haven't already)

The light output is controlled by the +/- button on the base panel

3. Articulation is controlled by your thumb on the wheel in the handle

4. Adjust View Quality By turning the display up or down

5. The LVS-2 is provided with RCA type vide output for connection to external monitors or computers.

6. Cleaning LVS-2

After each inspection, use a cotton swab immersed with light glass cleaning liquid, carefully wipe the dirty surface on the tube and a clean Q-tip dipped in alcohol to clean lens of the camera housing.

7. Storing the LVS-2

A. Keep the LVS-2 in case when not in use.

B. The LVS-2 storage area should be clean, dry, well-ventilated and of normal temperature. Avoid exposure to direct sunlight, high temperature, high humidity and X-ray.

8. Repairs to LVS-2

If the LVS-2 does not work normally, please turn off the power immediately, pack well and contact 248-421-9882 or sales@kelcoindustrial.com!

* Don't send parts separately, otherwise warranty will be voided.

*****Important: Before insertion, for best color and resolution, point video scope at white piece of paper at about ¼ in. distance push the WB or White Balance button to allow signal generator to calibrate and set color scale automatically***

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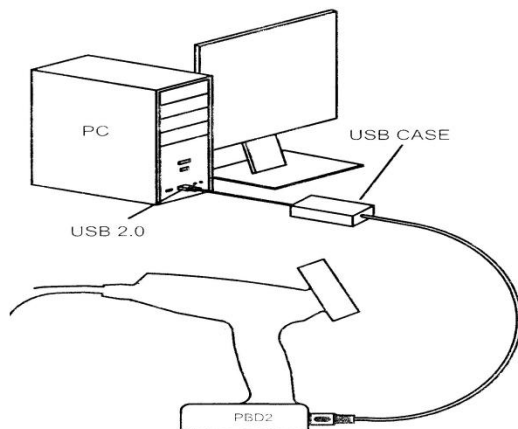
Operating Notes:

1. If the battery is low, please charge it at this time. The output voltage of charger is 12.4 V. and the charging time is 3-4 hours, do not over charge.
2. Insert the tube slowly. If you are having difficulty with inserting, please stop. Forcing the insertion will cause damage to the front glass of lens.
3. Please Do not point the videoscope at strong lights, this could damage the sensor chip.
4. The working environment Temperature should not be continuously higher than 80 C
5. When the machine is on for a long time, the lens will generate a lot of heat which is a normal occurrence. Caution should be used while handling to avoid accidents.
6. For Normal Operation (ON LVRS MODEL ONLY) Motion detect settings should be off.

Attachment:

User can utilize a USB CAPTURE DEVICE to connect LVS to a PC or Laptop.

Figure 3 Connect with PC



Connect to the PC: (if using USB CAPTURE DEVICE)

Follow Instructions provided with USB capture device and CD.

After installing all software and drivers use yellow RCA cable (included) to connect to USB capture device.

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Image Capturing

How to take snap shots: (if using LVRS video scope with SD card)

1. Turn video scope on
2. When you are ready to take a snap shot, push large circular button on top of video scope screen. (you should notice screen will freeze for a second)
3. To Review Captured Images, Push button with “play” symbol
4. To Delete Images, Press Menu button and Select “delete Image” option and press the “OK” key

To extract Images (using LVRS model only)

1. Remove SD card from top of video scope monitor. (simply push the SD card in slightly with finger and it should pop out)
2. Insert SD card into SD card reader (included)
3. Connect SD card Reader to Laptop Or computer
4. Your computer should automatically recognize the additional hard ware that has been inserted into your computer

If not, go to “My computer” and you should find an additional Device that was not on your computer previous to plugging in USB capture device

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